L4 ANSWER 12 OF 26 BIOTECHDS COPYRIGHT 2003 THOMSON DERWENT/ISI on STN ACCESSION NUMBER: 1997-01596 BIOTECHDS

TITLE: Extraction of glutamic acid from culture medium;

purification from fermentation broth by cation-exchange chromatography and crystallization, and utilization of waste as a fertilizer

waste as a lertilizer

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AB In a new method, glutamic acid is extracted from

culture broth with increased efficiency by acidification to pH 0.8-1.2 with nitric acid, and adsorption on a strong cation-exchanger, followed by washing, elution with alkali solution and crystallization to yield a product. The spent culture broth, wash water and mother liquor from the crystallization stage are combined, neutralized with KOH and dried, to yield a potassium and nitrogen fertilizer

. The method gives increased product yield and utilization of

waste-products. (3pp)